

EAST 09/654,376  
 DW 9/29/04

L Number	Hits	Search Text	DB	Time stamp
1	✓ 49	auto\$1correlat\$5 same ("3" OR three OR 3rd OR third\$3) NEAR2 (frame\$1 OR sub\$1frame\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/30 14:04
2	✓ 128	(voice\$1 OR speech\$2 OR audio\$1) NEAR2 detect\$3 SAME gateway\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/30 14:50
3	747	((voice\$1 OR speech\$2 OR audio\$1) NEAR2 detect\$3) OR VAD) AND (-\$3 ADJ2 db\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/30 14:51
4	✓ 346	((voice\$1 OR speech\$2 OR audio\$1) NEAR2 detect\$3) OR VAD) AND (-\$3 ADJ2 db\$1) SAME (voice\$1 OR speech\$2 OR audio\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/30 15:16
5	✓ 98	((voice\$1 OR speech\$2 OR audio\$1) NEAR2 detect\$3) OR VAD) SAME (-\$3 ADJ2 db\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/30 15:17
-	✓ 2	tackin.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/29 10:35
-	327461	pitch	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/29 10:36
-	3752	pitch WITH (estimat\$5 OR predict\$6)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/29 10:36
-	2124	(pitch WITH (estimat\$5 OR predict\$6)) AND (voice\$1 OR audio\$1 OR speech\$2)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/29 17:39
-	1763	(pitch WITH (estimat\$5 OR predict\$6)) SAME (voice\$1 OR audio\$1 OR speech\$2)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/29 10:37
-	12285	auto\$1correlat\$5	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/30 09:31
-	1597	auto\$1correlat\$5 AND pitch	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/29 11:04
-	680	auto\$1correlat\$5 SAME pitch	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/29 10:38
-	625	(auto\$1correlat\$5 SAME pitch) AND (voice\$1 OR audio\$1 OR speech\$2)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/29 18:37

-	✓ 495	(auto\$1correlat\$5 SAME pitch) SAME (voice\$1 OR audio\$1 OR speech\$2)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPÄT	2004/09/29 18:33
-	✓ 6	("5742734"   "5809453"   "5809455"   "5911128"   "5930747"   "6480823").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPÄT	2004/09/29 10:52
-	3857207	power\$3 OR energ\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPÄT	2004/09/29 11:05
-	489	(power\$3 OR energ\$3) AND (auto\$1correlat\$5 SAME pitch)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPÄT	2004/09/29 11:06
-	✓ 187	(power\$3 OR energ\$3) SAME (auto\$1correlat\$5 SAME pitch)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPÄT	2004/09/29 13:43
-	✓ 8	("5265190"   "5444816"   "5664055"   "5732389"   "5751901"   "5864650"   "6141638"   "6169970").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPÄT	2004/09/29 12:08
-	316	(estimat\$6 OR predict\$5) NEAR2 (pitch\$1 OR period\$6) SAME pitch SAME (energ\$3 OR power\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPÄT	2004/09/29 14:31
-	✓ 151	((estimat\$6 OR predict\$5) NEAR2 (pitch\$1 OR period\$6) SAME pitch SAME (energ\$3 OR power\$1)) AND auto\$1correlat\$5	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPÄT	2004/09/29 13:44
-	✓ 40	((estimat\$6 OR predict\$5) NEAR2 (pitch\$1 OR period\$6) SAME pitch SAME (energ\$3 OR power\$1)) SAME auto\$1correlat\$5	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPÄT	2004/09/29 13:44
-	223	(estimat\$6 OR predict\$5) NEAR2 (pitch\$1 OR period\$6) SAME auto\$1correlat\$5	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPÄT	2004/09/29 14:14
-	✓ 129	(estimat\$6 OR predict\$5) NEAR2 (pitch\$1 OR period\$6) WITH auto\$1correlat\$5	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPÄT	2004/09/29 14:04
-	✓ 4	(estimat\$6 OR predict\$5) NEAR2 (pitch\$1 OR period\$6) SAME pitch SAME dbm\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPÄT	2004/09/29 14:15
-	✓ 5	auto\$1correlat\$5 SAME pitch\$1 SAME dbm\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPÄT	2004/09/29 14:15
-	283	(estimat\$6 OR predict\$5) NEAR2 (pitch\$1 OR period\$6) SAME shift\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPÄT	2004/09/29 14:31
-	✓ 80	(estimat\$6 OR predict\$5) NEAR2 (pitch\$1 OR period\$6) SAME shift\$4 SAME pitch\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPÄT	2004/09/29 14:32
-	✓ 2	((("5491565") or ("5970441")).PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPÄT	2004/09/29 15:16

-	✓ 2	WO-9728628-\$.did.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/29 15:16
-	14912	pitch WITH track\$3	USPÄT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/29 16:58
-	✓ 40	(pitch WITH track\$3) SAME auto\$1correlat\$5	USPÄT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/29 16:58
-	✓ 8	("3706929"   "3982070"   "3995116"   "4015088"   "4441200"   "4443857"   "4672669"   "4856068").PN.	USPÄT	2004/09/29 17:12
-	✓ 39	5216747.URPN.	USPAT	2004/09/29 17:12
-	586	704/207.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/29 17:24
-	✓ 172	704/207.ccls. AND auto\$1correlat\$5	USPÄT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/29 17:38
-	4961	back\$1track\$3 OR (back\$3 ADJ1 track\$3)	USPÄT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/29 17:38
-	206	(pitch WITH track\$3) AND (back\$1track\$3 OR (back\$3 ADJ1 track\$3))	USPÄT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/29 17:38
-	✓ 98	((pitch WITH track\$3) AND (back\$1track\$3 OR (back\$3 ADJ1 track\$3))) AND (voice\$1 OR audio\$1 OR speech\$2)	USPÄT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/29 17:40
-	127	704/217.ccls.	USPÄT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/29 17:41
-	✓ 80	704/217.ccls. AND pitch	USPÄT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/29 17:41
-	✓ 9	4282406.URPN.	USPÄT	2004/09/29 18:03
-	504	((estimat\$6 OR predict\$6) NEAR3 period\$6) SAME pitch\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/29 18:38
-	✓ 196	((estimat\$6 OR predict\$6) NEAR3 period\$6) SAME pitch\$3) AND auto\$1correlat\$5	USPÄT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/29 18:37
-	✓ 194	((estimat\$6 OR predict\$6) NEAR3 period\$6) SAME pitch\$3) AND auto\$1correlat\$5) AND (voice\$1 OR audio\$1 OR speech\$2)	USPÄT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/29 18:37

-	200	704/214.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/29 19:08
-	✓ 56	704/214.ccls. AND auto\$1correlat\$5	USPÄT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/29 19:08
-	✓ 3	((("5548680") or ("4074069") or ("5127053"))).PN.	USPÄT	2004/09/30 09:29
-	1015	auto\$1correlat\$5 AND periodicit\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/30 09:31
-	331	auto\$1correlat\$5 SAME periodicit\$3	USPÄT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/30 09:32
-	✓ 178	auto\$1correlat\$5 SAME periodicit\$3 AND (voice\$1 OR audio\$1 OR speech\$2)	USPÄT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/30 13:44

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### 1 Multiple pitch estimation of poly-phonic audio signals in a frequency-lag domain using the bispectrum

*Abeysekera, S.S.;*

Circuits and Systems, 2004. ISCAS '04. Proceedings of the 2004 International Symposium on , Volume: 3 , 23-26 May 2004  
 Pages:III - 469-72 Vol.3

[\[Abstract\]](#)   [\[PDF Full-Text \(336 KB\)\]](#)   IEEE CNF

### 2 Pitch synchronous wavelet based fetal ECG extraction

*Elloumi, A.; Lachiri, Z.; Ellouze, N.;*

Control, Communications and Signal Processing, 2004. First International Symposium on , 2004  
 Pages:239 - 242

[\[Abstract\]](#)   [\[PDF Full-Text \(1511 KB\)\]](#)   IEEE CNF

### 3 Application of pitch tracking to South Indian classical music

*Krishnaswamy, A.;*

Acoustics, Speech, and Signal Processing, 2003. Proceedings. (ICASSP '03). 2003 IEEE International Conference on , Volume: 5 , 6-10 April 2003  
 Pages:V - 557-60 vol.5

[\[Abstract\]](#)   [\[PDF Full-Text \(330 KB\)\]](#)   IEEE CNF

### 4 A new efficient pitch-tracking algorithm

*Bo Li; Ying-Ying Li; Cheng-You Wang; Chao-Jing Tang; Er-Yang Zhang;*

Robotics, Intelligent Systems and Signal Processing, 2003. Proceedings. 2003 IEEE International Conference on , Volume: 2 , 8-13 Oct. 2003  
 Pages:1102 - 1107 vol.2

[\[Abstract\]](#)   [\[PDF Full-Text \(426 KB\)\]](#)   IEEE CNF

### 5 Determination of pitch of noisy speech using dominant harmonic frequency

*Hasan, K.; Shahnaz, C.; Fatah, S.A.;*

Circuits and Systems, 2003. ISCAS '03. Proceedings of the 2003 International

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*Abeysekera, S.S.;*

Circuits and Systems, 2004. ISCAS '04. Proceedings of the 2004 International Symposium on , Volume: 3 , 23-26 May 2004  
Pages:III - 469-72 Vol.3

[\[Abstract\]](#)   [\[PDF Full-Text \(336 KB\)\]](#)   IEEE CNF

### 2 A pitch detector based on the dyadic wavelet transform and the autocorrelation function

*LI Jing; BAO Changchun;*

Signal Processing, 2002 6th International Conference on , Volume: 1 , 26-30 Aug. 2002  
Pages:414 - 417 vol.1

[\[Abstract\]](#)   [\[PDF Full-Text \(333 KB\)\]](#)   IEEE CNF

### 3 A new band-splitting method for two-band speech model

*Eun-Kyoung Kim; Woo-Jin Han; Yung-Hwan Oh;*

Signal Processing Letters, IEEE , Volume: 8 , Issue: 12 , Dec. 2001  
Pages:317 - 320

[\[Abstract\]](#)   [\[PDF Full-Text \(75 KB\)\]](#)   IEEE JNL

### 4 A multiband excited waveform-interpolated 2.35-kbps speech codec for bandlimited channels

*Brooks, F.C.A.; Hanzo, L.;*

Vehicular Technology, IEEE Transactions on , Volume: 49 , Issue: 3 , May 2000  
Pages:766 - 777

[\[Abstract\]](#)   [\[PDF Full-Text \(256 KB\)\]](#)   IEEE JNL

### 5 Towards automatic pitch detection in snoring signals

*Sola-Soler, J.; Jane, R.; Fiz, J.A.; Morera, J.;*

Engineering in Medicine and Biology Society, 2000. Proceedings of the 22nd Annual International Conference of the IEEE , Volume: 4 , 23-28 July 2000

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**1 An InGaP/GaAs collector-up tunnelling-collector HBT and subtransistor via-hole structure for small and highly efficient power amplifiers**

*Tanaka, K.; Mochizuki, K.; Takubo, C.; Matsumoto, H.; Tanoue, T.; Ohbu, I.;*  
Microwave Symposium Digest, 2003 IEEE MTT-S International , Volume: 3 , 8-13  
June 2003

Pages:2197 - 2200 vol.3

[\[Abstract\]](#)   [\[PDF Full-Text \(321 KB\)\]](#)   IEEE CNF

**2 Eight-channel p-i-n/HBT monolithic receiver array at 2.5 Gb/s per channel for WDM applications**

*Chandrasekhar, S.; Lunardi, L.M.; Hamm, R.A.; Qua, G.J.;*  
Photonics Technology Letters, IEEE , Volume: 6 , Issue: 10 , Oct. 1994  
Pages:1216 - 1218

[\[Abstract\]](#)   [\[PDF Full-Text \(232 KB\)\]](#)   IEEE JNL



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Pages:817 - 821 vol.2[\[Abstract\]](#)   [\[PDF Full-Text \(372 KB\)\]](#)   IEEE CNF**2 A new efficient pitch-tracking algorithm***Bo Li; Ying-Ying Li; Cheng-You Wang; Chao-Jing Tang; Er-Yang Zhang;*Robotics, Intelligent Systems and Signal Processing, 2003. Proceedings. 2003 IEEE International Conference on , Volume: 2 , 8-13 Oct. 2003  
Pages:1102 - 1107 vol.2[\[Abstract\]](#)   [\[PDF Full-Text \(426 KB\)\]](#)   IEEE CNF**3 Application of pitch tracking to South Indian classical music***Krishnaswamy, A.;*Acoustics, Speech, and Signal Processing, 2003. Proceedings. (ICASSP '03). 2003 IEEE International Conference on , Volume: 5 , 6-10 April 2003  
Pages:V - 557-60 vol.5[\[Abstract\]](#)   [\[PDF Full-Text \(330 KB\)\]](#)   IEEE CNF**4 Robust pitch tracking in the car environment***Quast, H.; Schreiner, O.; Schroeder, M.R.;*Acoustics, Speech, and Signal Processing, 2002. Proceedings. (ICASSP '02). IEEE International Conference on , Volume: 1 , 13-17 May 2002  
Pages:I-353 - I-356 vol.1[\[Abstract\]](#)   [\[PDF Full-Text \(349 KB\)\]](#)   IEEE CNF**5 A new band-splitting method for two-band speech model***Eun-Kyoung Kim; Woo-Jin Han; Yung-Hwan Oh;*Signal Processing Letters, IEEE , Volume: 8 , Issue: 12 , Dec. 2001  
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